

What is claimed is:

1. A head-up display for a motorcycle, which is adapted to inform a driver of traffic information by display of an image projected on a screen provided in front of a riding position of a driver, wherein when a visual field for a driver who takes a riding posture and turns his or her eyes to the front side is divided into a central field and a peripheral field surrounding said central field, said image is located in said peripheral field on said screen.

2. The head-up display for a motorcycle according to claim 1, wherein said image is located at a central position of said peripheral field or a position offset to said central field from the central position of said peripheral field.

3. The head-up display for a motorcycle according to claim 1, wherein said image has a stripe or linear pattern.

4. The head-up display for a motorcycle according to claim 1, wherein said image has a stripe or linear pattern extending in the horizontal direction, and a width of said image in said horizontal direction is determined so that an angle formed between two lines extending from a point in said central field to both ends of said image becomes at least 20°.

5. The head-up display for a motorcycle according to claim 1, wherein a width of said image in a horizontal direction satisfies a relationship of $20^\circ \leq \theta_3 < \theta_4$, where:

θ_3 is an angle formed between two lines extending from an uppermost point of said central field to both ends of said image; and

θ_4 is an angle formed between two additional lines extending from a

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lowermost point of said central field to said both ends of said image.

6. The head-up display for a motorcycle according to claim 1, further comprising a projector which produces said image.

7. The head-up display for a motorcycle according to claim 6, wherein said projector comprises a plurality of light sources aligned in a row.

8. The head-up display for a motorcycle according to claim 6, wherein said projector comprises:

- a plurality of light sources;
- a substrate on which said light sources are mounted;
- a case in which said substrate is located; and
- a lens covering a portion of said case through which light emitted from said light sources passes.

9. The head-up display for a motorcycle according to claim 8, wherein a width of said image in a horizontal direction satisfies a relationship of $20^\circ \leq \theta 3 < \theta 4$, where:

$\theta 3$ is an angle formed between two lines extending from an uppermost point of said central field to both ends of said image; and

$\theta 4$ is an angle formed between two additional lines extending from a lowermost point of said central field to said both ends of said image.

10. A head-up display for a motorcycle, comprising:

- a projector which produces an image; and

- a screen on which said image is displayed, said screen having a peripheral portion located in a peripheral field of view of a driver, said peripheral field of view being an area outside of a central field of view of

the driver, said central field of view extending approximately 6 degrees in a vertical direction as defined for 90% of all drivers in a riding posture on the motorcycle,

wherein said image is displayed in said peripheral field of view.

11. The head-up display for a motorcycle according to claim 10, wherein said projector comprises a plurality of light sources aligned in a row.

12. The head-up display for a motorcycle according to claim 10, wherein said projector comprises:

a plurality of light sources;

a substrate on which said light sources are mounted;

a case in which said substrate is located; and

a lens covering a portion of said case through which light emitted from said light sources passes.

13. The head-up display for a motorcycle according to claim 10, wherein said image is located at a central position of said peripheral field of view.

14. The head-up display for a motorcycle according to claim 10, wherein said image has a stripe or linear pattern extending in a horizontal direction.

15. The head-up display for a motorcycle according to claim 10, wherein a width of said image in a horizontal direction is determined so that an angle formed between two lines extending from a point in the central field of view to both ends of the image is at least 20°.

16. The head-up display for a motorcycle according to claim 10, wherein a width of said image in a horizontal direction satisfies a relationship of $20^\circ \leq \theta_3 < \theta_4$, where:

θ_3 is an angle formed between two lines extending from an uppermost point of said central field of view to both ends of said image; and

θ_4 is an angle formed between two additional lines extending from a lowermost point of said central field of view to said both ends of said image.

17. The head-up display for a motorcycle according to claim 16, wherein said projector comprises:

a plurality of light sources;

a substrate on which said light sources are mounted;

a case in which said substrate is located; and

a lens covering a portion of said case through which light emitted from said light sources passes.

18. The head-up display for a motorcycle according to claim 17, wherein said plurality of light sources are aligned in a row.

19. The head-up display for a motorcycle according to claim 18, wherein said image is located at a central position of said peripheral field of view.